

S-Guard Tx

Toxic and O₂ Gas Detector



The GasTech Australia GTD-2000Tx is part of the S-Guard™ smart transmitter series and includes instruments for both toxic gas detection and oxygen concentration monitoring. The sensing element technology provides long operational life, low cross sensitivity and robust environmental performance. The instruments transmit industry standard 4 - 20 mA analog output, providing gas concentration, fault and calibration signals. Modbus digital communications transmitted via RS485 and HART communication via the 4-20mA output are also available as an option.

Features

- * Flameproof cast Aluminium enclosure.
- * IP66 Ingress Protection rating.
- * Smart microprocessor based architecture.
- * Continuous monitoring of toxic gases and oxygen in explosive gas hazardous area applications.
- * Industry standard 4 - 20mA output signal.
- * Inbuilt self-diagnostics continually monitor detector status giving increased operational confidence.
- * Low cross-sensitivity sensor technology gives excellent target gas selectivity.
- * Performance optimised for detection below TLV.
- * Clear back-lit LCD for display of measurement and status information in all visibility conditions.
- * User-configurable to provide flexible integration into end applications.
- * Auto calibration functionality.
- * 'No-Access' calibration and configuration using magnet stylus.
- * High reliability operation giving low cost of ownership.

Applications

- Refineries
- Gas turbines
- Drilling and production platforms
 - Chemical plants
 - Fuel loading facilities
 - Compressor stations
 - Oil well logging
- Wastewater treatment facilities
 - LNG/LPG processing and storage facilities
 - Transportation facilities

S-Guard Tx

Toxic and O₂ Gas Detector

Model	S-Guard CAT GTD-2000 Tx
Measuring gas	Refer to Gas Table
Measuring type	Natural Diffusion
Sensor type	Electro-Chemical or Galvanic Cell
Measuring range	Refer to Gas Table
Response time	45 seconds to T90
Accuracy	±3% / Full scale
Parameter controls	Non intrusive control with Magnet bar (calibration, maintenance, alarm setting)
Measuring value display	LCD display (Built-in Back light 2-Line, 16 characters)
Analog Output signal	
Measured gas concentration	4-20 mA DC
Maintenance signal	3 mA DC
Calibration signal	3 mA DC
Fault signal	2 mA DC
Digital output	MODBUS RTU. Half Duplex RS485 (optional) HART Interface (optional)
Cable / Distance	Power + signal cable: 3 wire (above CVVS 1.5sq) / 500m max.
RS-485 data communication cable	Single twisted pair (UL2919 RS-485) / 1,000m max.
Conduit pipe	1/2" & 3/4" PF, NPT (3/4" PF standard)
Mounting type	2" Pole mount, Wall mount, Duct mount
Operating temperature	-20°C ~ +60°C
Operating humidity	5 to 99%.RH (non-condensing)
Operating voltage range	18 to 31V DC (24V DC normal).
Maximum operating current	300mA
Dimensions	136 x 166 x 110 (W X H X D)mm
Weight	1.7kg
Approval	Flameproof structure (Ex d IIC T6),ATEX, IECEx GTL-100 (Explosion-proof Warning Light) Rain Cover
Ordering information	67-9091-H2S S-Guard H2S Transmitter and JBox 0-50ppm IECex 67-9091-xxx (xxx) represents the gas type eg HCN, CO etc

Distributed By

HEAD OFFICE

Telephone +61 8 6108 0000
Facsimile +61 8 9408 1868
Email info@gastech.com.au
24 Baretta Road
Wangara, Western Australia 6065

NSW OFFICE

Telephone +61 2 9451 0054
Facsimile +61 2 9450 0833
Email info@gastech.com.au
21/25, Narabang Way
Belrose NSW 2085

